Ref	Hits	Search Query	DBs	Default	Plurals	Time,Stamp
#				Operator		
S1	2	"20050114 094 "	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/14 14:31
52	18	"lithography optimization"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/14 13:32
S4	8	S2 stack	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/07 14:45
S5	2	S4 reflectivity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/07 13:55
S 6	10	"optimal reflectivity value"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/07 14:48
S 7	6	"reflectivity optimization"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/07 16:20
511	0	"lithography optimiza\$8"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	AND	ON	2007/03/07 16:13
S12	18	lithography adj optimiza\$8	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	AND	ON	2007/03/07 16:13
S13	108	lithography adj5 optimiza\$8	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	AND	ON	2007/03/07 16:14
S14	98	fithography adj4 optimiza\$8	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	AND	ON	2007/03/07 16:14
S15	318	lithography with optimiza\$8	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	AND	ON	2007/03/07 16:16
S17	1	S15 "R+5"	IBM_TD8 US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	AND	ON	2007/03/07 16:17
S18	0	S15 "Reflectivity plus Sensitivity"	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IRM TDB	AND	ON	2007/03/07 16:17
S19	0	"Reflectivity plus Sensitivity"	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/03/07 16:17

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S20	2	"Reflectivity" with "Sensitivity" with cost with function .	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:18
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
521	30	"Reflectivity" with "Sensitivity" with cost	US-PGPUB; USPAT;	AND	ON	2007/03/07 16:18
		·	USOCR; FPRS; EPO; JPO;			
533	,	England the County of the England the County of the County	DERWENT; IBM_TDB	4415	0.11	2007/07/07 46 40
522	2	"Reflectivity" with "Sensitivity" with lithography	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:19
			FPRS; EPO; JPO; DERWENT;			
523	5014	"R+S"	IBM_TDB US-PGPUB; USPAT;	AND	ON	2007/03/07 16:19
			USOCR; FPRS; EPO; JPO;			
524	16	S23 reflectivity sensitivity	DERWENT; IBM_TD8 US-PGPUB;	AND	ON	2007/03/07 16:20
			USPAT; USOCR; FPRS;	A10		2007/03/07 10:20
			EPO; JPO; DERWENT; IBM_TDB			
526	55	S23 lithography	US-PGPUB; USPAT;	AND	ON	2007/03/07 16:20
			USOCR; FPRS; EPO; JPO; DERWENT;			
527	13169	Reflect\$8 with optimiz\$8	IBM_TDB US-PGPUB;	AND	ON	2007/03/07 16:21
			USPAT; USOCR; FPRS;			-
			EPO; JPO; DERWENT; IBM_TDB			
S28	3644	(Reflect\$8 optimiz\$8).ab.	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:21
			FPRS; EPO; JPO; DERWENT;			
S29	114	S28 lithography	IBM_TDB US-PGPUB; USPAT;	AND	ON	2007/03/07 16:22
ľ			USOCR; FPRS; EPO; JPO;			
S30	37	S29 refraction	DERWENT; IBM_TDB US-PGPUB;	AND		
330	3,		USPAT; USOCR; FPRS;	AND	ON	2007/03/07 16:23
			EPO; JPO; DERWENT; IBM_TDB			
S32	0	(reflectiv\$6 optimiz&7).ti.	US-PGPUB; USPAT;	AND	ON	2007/03/07 16:23
			USOCR; FPRS; EPO; JPO; DERWENT;			
533	27	(reflectiv\$6 optimiz\$7).ti.	IBM_TD8 US-PGPUB;	AND	ON	2007/03/07 16:24
			USPAT; USOCR; FPRS;			
			EPO; JPO; DERWENT; IBM_TDB			
S34	477	i de la companya de	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:25
			FPRS; EPO; JPO; DERWENT;			
S35	145	reflectivity optimization multilayer stack lithography	IBM_TDB US-PGPUB; USPAT;	AND	ON	2007/03/07 16:34
			USOCR; FPRS; EPO; JPO;			
			DERWENT; IBM_TDB			

536	2	S35 parameter extrema variable	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/07 16:26
			EPO; JPO; DERWENT; IBM_TDB			
S37	1	S35 "R+S"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/07 16:29
S38	21322	Lithography.ab.	DERWENT; IBM_TDB US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/07 16:39
540	0	S38 (optimiz\$7 reflectiv&5).ab.	EPO; JPO; DERWENT; IBM_TDB US-PGPUB;	AND	ON	2007/03/07 16:35
			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S41	12	S38 (optimiz\$7 reflectiv\$5).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/07 16:35
542	0	S38 (optimal refraction stack).ab.	DERWENT; IBM_TDB US-PGPUB; USPAT;	AND	ON	2007/03/07 16:40
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S43	2	(optimal refraction stack).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/07 16:40
S44	13	(optim\$8 refraction stack).ab.	DERWENT; IBM_TDB US-PGPUB; USPAT;	AND	ON	2007/03/07 16:44
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
545	2	extrema with cost with sensitiv\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	AND	ON	2007/03/07 16:45
546	2	extrema with cost with reflectiv\$6	IBM_TDB US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:45
S47	3		FPRS; EPO; JPO; DERWENT; IBM_TDB US-PGPUB;	AND	ON	3007/03/07 16-47
"	2		USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	200		2007/03/07 16:47
548	2	extrema same reflectiv\$6 same multilayer same stack	IBM_TDB US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:47
549	_ 54		FPRS; EPO; JPO; DERWENT; IBM_TDB US-PGPUB;	AND	ON	2007/03/07 16:49
		·	USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	-		20,13
S50	177134	Photolithography or lithography	IBM_TDB US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/07 16:49
			FPRS; EPO; JPO; DERWENT; IBM_TDB			

S51	4	(lithography same optimization) (multilayer with stack)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/07 16:52
			DERWENT;			
552	3	S51 reflectiv\$6	US-PGPUB; USPAT;	AND	ON	2007/03/07 16:52
			USOCR; FPRS; EPO; JPO; DERWENT;			
CER	,	"6471945".pn.	IBM_TDB		ON.	2007/03/13 15:30
553	2	оч/19-15 .pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/13 15:39
			DERWENT; IBM_TDB		Ì	
S54	41	("2197719" "3052552" "3664962" "3872021" "3912817" "4148872" "4150112" "4156715" "4156716" "4157385" "4159315" "4150934" "4217368" "4217368" "4224345" "4352825" "4585649" "4753790" "4228845" "4842762" "4952407" "5017385" "5073389" "5256402" "5380530" "5391315" "5629035" "5645821" "5698215" "5713738" "5736175" "5756074" "5824291" "5879728"),PN. OR ("6471945"),URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/13 15:41
S56	0	(multilayer stack).ab. thickness "index of refraction" (optimiz\$5 optimum optimal).ab.	US-PGPUB; USPAT;	AND	ON	2007/03/14 13:33
			USOCR; FPRS; EPO; JPO; DERWENT;			
S57	0	(multilayer stack).ab. thickness "index of refraction" (optimiz\$5 or optimum or optimal).ab.	IBM_TDB		ON	2007/02/14 17:24
35/		Commenter amenders more or removement federings on obsumming obsumatives.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND		2007/03/14 13:34
			DERWENT; IBM_TDB			
S58	0	(multilayer reflectivity).ab. thickness "index of refraction" (optimiz\$5 or optimum or optimal).ab.	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/14 13:34
		·	FPRS; EPO; JPO; DERWENT; IBM_TDB			
559	0	(multilayer reflectivity (optimiz\$6 or optimum or optimal)).ab. thickness "index of refraction"	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/14 13:35
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S60	21	(multilayer reflectivity (optimiz\$6 or optimum or optimal)).ab. thickness	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/14 13:35
			EPO; JPO; DERWENT;			
561	10	(multilayer stack reflectivity (optimiz\$6 or optimum or optimal)).ab. thickness	US-PGPUB; USPAT;	AND	ON	2007/03/14 13:36
			USOCR; FPRS; EPO; JPO; DERWENT;			
S62	2	(multilayer stack reflectivity sensitivity (optimiz\$6 or optimum or optimal)).ab. thickness	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/14 13:37
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S63	2	(multilayer stack (optimiz\$6 or optimum or optimal)).ab. thickness (reflectivity with sensitivity)	US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/14 13:37
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S64	2	(multilayer stack (optimiz\$6 or optimum or optimal)).ab. (reflectivity with sensitivity)	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/14 13:38
			EPO; JPO; DERWENT; IBM_TDB			
S65	13	(multilayer same stack same (optimiz\$6 or optimum or optimal)) (reflectivity with sensitivity)	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/14 13:39
S67	9	S65 (simulat\$5 or model\$5)	EPO; JPO; DERWENT; IBM_TDB US-PGPUB;	AND	ON	2007/03/14 13:44
307	9	and familiances on HADCE(4))	USPAT; USOCR; FPRS;	AND	ON	2007/03/14 13:44
			EPO; JPO; DERWENT; IBM_TDB			
					L	<u> </u>

		·				
S68	10	"optimal reflectivity value"	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/14 13:53
S69	0	"optimum reflectivity value"	EPO; JPO; DERWENT; IBM_TDB US-PGPUB;	AND	ON	2007/03/14 13:53
			USPAT; USOCR; FPRS; EPO; JPO;			2507/03/14 13:33
570	0	"optimiz\$5 reflectivity value"	DERWENT; IBM_TDB US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/14 13:47
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
571	0	"optimiz\$5 adj3 reflectivity value"	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/14 13:54
572	0	"optimiz\$5 with reflectivity with value"	EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT;	AND	ON:	2007/03/14 13:53
			USOCR; FPRS; EPO; JPO; DERWENT;			
573	0	"optim5 with reflectivity with value"	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/14 13:47
574	0	optim\$5 with reflectivity with value	EPO; JPO; DERWENT; IBM_TDB US-PGPUB;	AND	ON	2007/03/14 13:47
			USPAT; USOCR; FPRS; EPO; JPO; DERWENT;			
S75	2	"optimal reflectance value"	IBM_TDB US-PGPUB; USPAT; USOCR;	AND .	ON	2007/03/14 13:53
576	2		FPRS; EPO; JPO; DERWENT; IBM_TDB			
S76	3	"optimum reflectance value"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/14 13:53
577	0	"optimiz\$5 with reflectance with value"	DERWENT; IBM_TDB US-PGPUB; USPAT; USOCR;	AND	ON	2007/03/14 13:53
	,		FPRS; EPO; JPO; DERWENT; IBM_TDB			
S78	0	"optimiz\$5 adj3 reflectance value" .	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	AND	ON	2007/03/14 13:54
579	2149	703/2.ccls.	DERWENT; IBM_TDB US-PGPUB; USPAT;	AND	ON	2007/03/14 14:31
			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S80	2	S79 (reflectivity or reflectance) with sensitivity	US-PGPUB; USPAT; USOCR; FPRS;	AND	ON	2007/03/14 14:44
581	0	579 multilayer stack sensitivity extrema optimize	EPO; JPO; DERWENT; IBM_TDB US-PGPUB;	AND	ON	2007/03/14 14:44
			USPAT; USOCR; FPRS; EPO; JPO; DERWENT;			
			IBM_TDB		<u> </u>	L

S82	0	579 multilayer stack sensitivity extrema optimiz\$5	US-PGPUB;	AND	ON	2007/03/14 14:44
			USPAT;		1	1
- 1	1		USOCR;			
	1		FPRS;			
- 1	1	<u> </u>	EPO; JPO;			
	1	l i	DERWENT:		ł	
			IBM_TDB			

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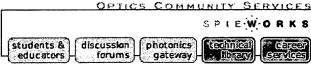
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Abstract

PUBLICATIONS

Optical lithography simulation and photoresist optimization for photomask fabrication

Rathsack, Benjamen M., Tabery, Cyrus E., Scheer, Steven A., Univ. of Texas at Austin; Pochkowski, Mike, Etec Systems, Inc.; Philbin, Cecilia E., Kalk, Franklin D., DuPont Photomasks, Inc.; Henderson, Clifford L., Georgia Institute of Technology; Buck, Peter D., DuPont Photomasks, Inc.; Willson, C. Grant, Univ. of Texas at Austin

Publication:

Proc. SPIE Vol. 3678, p. 1215-1226, Advances in Resist Technology

and Processing XVI, Will E. Conley; Ed.

Publication

Date:

5/1999

Abstract:

The demand for smaller and more uniform features on photomasks is rapidly increasing. The complexity of these patterns is also increasing with the need for optical proximity correction and phase shifting structures. These complex mask features demand unprecedented accuracy in pattern placement and dimensional control. We have conducted research designed to optimize the process for laser pattern generation by improving resolution and process latitude. Lithographic simulation was utilized for process optimization because of the very high cost of mask patterning and metrology experiments.

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